

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Balakrishnan, *et al.* Attorney Docket: TI-35863  
Filed: Herewith Examiner: TBD  
Serial No.: TBD Art Unit: TBD  
For: A Square-root Raised Cosine Ultra-wideband Communications System

Mail Stop: Patent Application  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

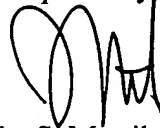
**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

The Applicants wish to bring to the attention of the Patent and Trademark Office the information noted on the enclosed form PTO/SB/08A that may be considered material to the examination of the above-identified application.

No fee is due at this time, as this Information Disclosure Statement is being filed concurrently with the patent application.

Respectfully submitted,



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January 16, 2004

Date

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	TBD
				Filing Date	HEREWITH
				First Named Inventor	Balakrishnan, <i>et al.</i>
				Art Unit	TBD
Examiner Name	TBD				
Attorney Docket Number	TI-35863				
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A	FCC, "First Report and Order, In the matter of Revision of Part 15 of the Commission's Rules Regarding Ultra-Wideband Transmission Systems," Adopted 02-14-02, released 04-22-02, Washington, D.C., US.	
	B	KOHNO, R., <i>et al.</i> , "Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)", doc.: IEEE 802.15-03/097r1, IEEE P802.15 Alternative PHY Call For Proposals, IEEE P802.15-02/327r7, Japan, March, 2003.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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